

## Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:	
	 TYPE OF SERVICE:		
REPRESENTATIVE:	 SUBMITTED BY:	 DATE:	
ENGINEER:	 APPROVED BY:	 DATE:	
CONTRACTOR:	 ORDER NO.:	DATE:	

### SLV.30.A30.150.A.EX.2.61R.C



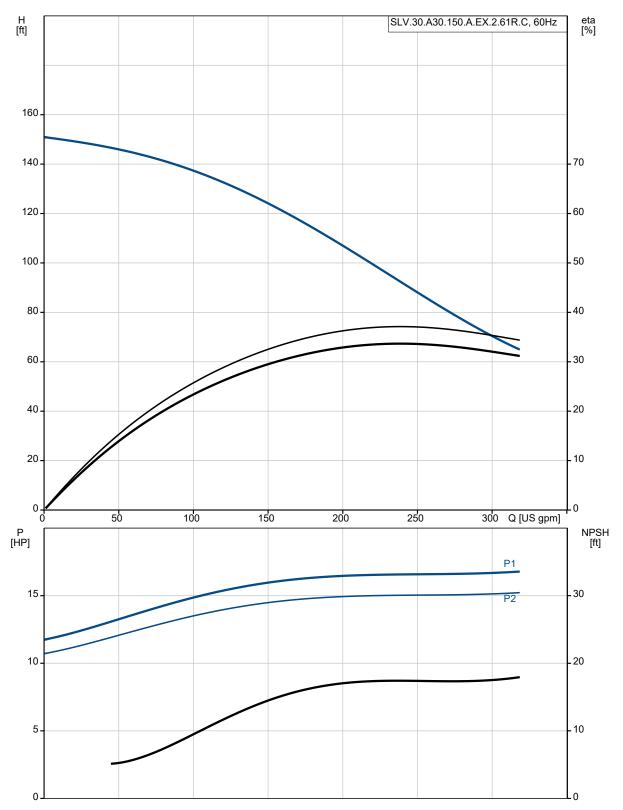
Sewage pumps

Product photo could vary from the actual product

Conditions of Service		Pump Data	Motor Data		
Efficiency:		Liquid max temp:	104 °F	Rated voltage:	230/460 V
Liquid:	any viscous fluid	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
NPSH required:	ft	Approvals:	CSA, FM	Number of poles:	2
Specific Gravity:	1.000	Flange standard:	ANSI	Enclosure class:	IP68
		Product number:	99030296	Insulation class:	н
				Motor protection:	Pt1000
				Eff. 1/1:	90.7 %

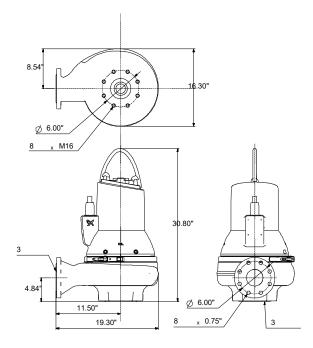
# Submittal Data

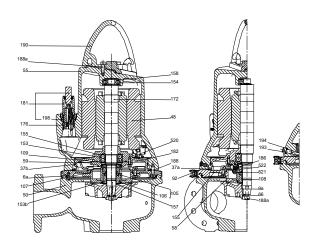




# Submittal Data







### Materials:

Pump housing:
Pump housing:
Pump housing:
Impeller:
Impeller:
Impeller:
Motor:

Cast iron EN 5.1301 EN-GJL-250 ASTM ASTM A48-250B Cast iron ASTM A48-250B EN 5.1301 EN-GJL-250 EN-GJL-250



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12/15/2021

### Count | Description

The shaft seal consists of two mechanical seals that ensure a reliable sealing between the pumped liquid and motor. The shaft seals are incorporated in a single-unit cartridge shaft seal system that is easy to replace in the field without use of special tools.

Date:

The combination of the primary and secondary seals in a cartridge shaft seal system results in a shorter assembly length compared to conventional shaft seals.

- Primary seal: Silicon carbide/silicon carbide (SiC/SiC)
- Secondary seal: Carbon/Ceramics

The shaft seal is bidirectional, meaning it operates correctly in case of backflow through the pump.



The pump is approved according to CSA, FM. The pump is approved for installation in explosive atmospheres and holds the following examination certificate:

- Class 3600 1998
- Class 3615 2006
- Class 3615.80 1999
- ANSI/IEC 60529 2004

The certificate has been issued according to FM approvals, FM3600 series and C22.2 series. For applications involving a risk of explosion, or where otherwise required, the pump is approved as Class 1, Division 1, Groups C and D.

Note: Explosion-proof pumps must always be fully submerged.

#### Motor

The motor is a watertight, totally encapsulated motor supplied with a 49 ft power cable. The stainless steel plug is fastened with a union nut. This nut and the O-rings provide sealing against ingress of the liquid.

The plug is polyurethane-embedded, ensuring a watertight and durable seal around the leads of the cable. This prevents the ingress of water into the motor through the cable in case of cable breakage or adverse handling in connection with installation or service.

A compact motor construction with a short shaft reduces vibrations, resulting in an increased efficiency and lifetime of the shaft seal and ball bearings.

The motor features built-in thermal protection to protect the motor against overheating and ensure the reliability.

The pump is equipped with the following sensor(s):

- A digital moisture switch that is fitted in the motor chamber monitors whether water enters the motor chamber. If moisture is detected in the motor chamber, the switch will trip and send a warning to the sensor module.
- An analog sensor that is fitted in the oil chamber monitors whether water enters the pump from the liquid side. It sends a signal if the water content is outside the normal range (warning), or if there is air in the oil chamber (alarm).

The pump is designed for speed-controlled operation to keep the energy consumption at a minimum. To avoid the risk of sedimentation in the pipes, we recommend that you operate the speed-controlled pump within a speed range of 30 % to 100 % and at a flow rate above 1 m/s.

Controls: Moisture sensor:

with moisture sensors



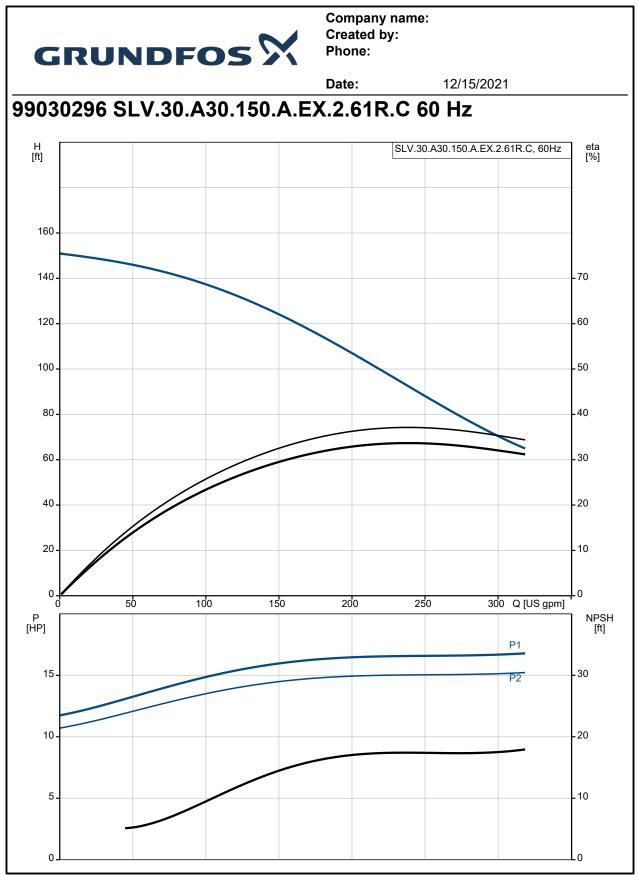
		Date:	12/15/2021
Count	Description		
	Water-in-oil sensor:	with water-in-oil sensor	
	Liquid:		
	Pumped liquid:	any viscous fluid	
	Liquid max temp:	104 °F	
	Density:	62.29 lb/ft <sup>3</sup>	
		02.20 13/10	
	Technical:		
	Type of impeller:	Super Vortex	
	Maximum particle size:	3 1/8 in	
	Primary shaft seal:	SIC/SIC	
	Approvals on nameplate:	CSA, FM	
	Curve tolerance:	ANSI/HI11.6:2017 3B	
	Materials:		
	Pump housing:	Cast iron	
		EN 5.1301 EN-GJL-250	
		ASTM ASTM A48-250B	
	Impeller:	Cast iron	
		EN 5.1301 EN-GJL-250	
		ASTM A48-250B	
	Motor:	EN-GJL-250	
	Installation:		
	t max amb:	104 °F	
	Flange standard:	ANSI	
	Pump inlet:	80	
	Pump outlet:	80 DN 40	
	Pressure stage:	PN 10	
	Maximum installation depth:	65.6 ft	
	Auto-coupling:	97626239	
	Frame range:	D	
	Electrical data:		
	Power input - P1:	12.6 kW	
	Rated power - P2:	15 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 230/460 V	
	Voltage tolerance:	+10/-10 %	
	Max starts per. hour:	20	
	Rated current:	37/20 A	
	Starting current:	240 A	
	Cos phi - power factor:	0.87	
	Cos phi - p.f. at 3/4 load:	0.84	
	Cos phi - p.f. at 1/2 load:	0.77	
	Rated speed:	3530 rpm	
	Motor efficiency at full load:	90.7 %	
	Motor efficiency at 3/4 load:	91.2 %	
	Motor efficiency at 1/2 load:	91.2 %	
	Number of poles:	2	
	1 .		

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			Date:	12/15/2021	
Count	Description				
	Start. method: Enclosure class (IEC 34-5): Insulation class (IEC 85): Explosion proof: Length of cable: Cable type:	star/delta IP68 H yes 49 ft SEOOW 600V	1		
	Others:				
	Net weight: Country of origin: Custom tariff no.:	396 lb HU 8413.70.2004			

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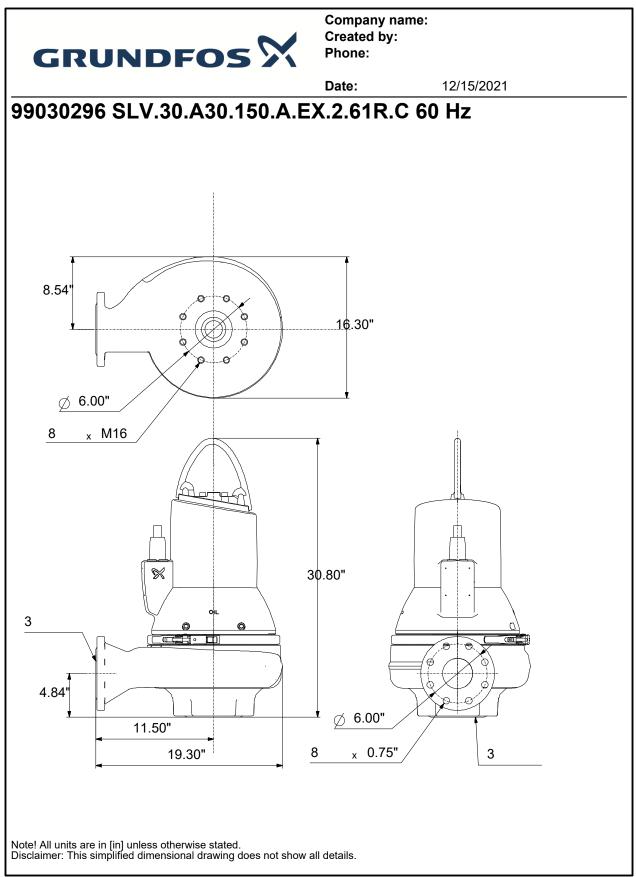


		Date:	12/15/2021
Description	Value	H [ft]	SLV.30.A30.150.A.EX.2.61R.C, 60Hz eta
General information:	Value	[11]	
Product name:	SLV.30.A30.150.A.EX.2.61R.C		
r roudet name.		160 -	
Product No.:	99030296	140 -	70
EAN:	5712605418993		
Technical:		120 -	60
Max flow:	317 US gpm	100 -	- 50
Max flow:	317 US gpm	100 -	
Head max:	151.9 ft	80 -	- 40
Type of impeller:	Super Vortex	60 -	30
Maximum particle size:	3 1/8 in	00 -	30
Primary shaft seal:	SIC/SIC	40	20
Approvals on nameplate:	CSA, FM		
Curve tolerance:	ANSI/HI11.6:2017 3B	20-	
Cooling jacket:	without cooling jacket	0	0
Materials:		0 50	) 100 150 200 250 Q [US gpm]
Pump housing:	Cast iron	P [HP]	P1 [ft]
Pump housing:	EN 5.1301 EN-GJL-250	15	20
Pump housing:	ASTM ASTM A48-250B		P2 - 30
Impeller:	Cast iron	10	20
Impeller:	EN 5.1301 EN-GJL-250		20
Impeller:	ASTM A48-250B	5 -	10
Motor:	EN-GJL-250		
Installation:		0	
t max amb:	104 °F	¶	
Flange standard:	ANSI		
Pump inlet:	80		
Pump outlet:	80	8.54	
Pressure stage:	PN 10	- Topo	
Maximum installation depth:	65.6 ft	g 6.00"	
Inst dry/wet:	SUBMERGED	8 x M16	
Installation:	Vertical		
Auto-coupling:	97626239		
Frame range:	D		
Liquid:		4.84	
Pumped liquid:	any viscous fluid	11.50*	8 , 0.75 3
Liquid max temp:	104 °F	19.30	<u>8</u> 0.75
Density:	62.29 lb/ft <sup>3</sup>		
Electrical data:			
Power input - P1:	12.6 kW		
Rated power - P2:	15 HP		
Main frequency:	60 Hz		
Rated voltage:	3 x 230/460 V	ធំសំតំតំតំតំតំ ធំ	कं कं ⊕नेतेत्वे के कं कं ⊕नेत्वते ⊻ संख्या
Voltage tolerance:	+10/-10 %	11 <b>999999</b> 999 	a Titturi I I International a a a a a a a a a a a a a a a a a a
Max starts per. hour:	20		
Rated current:	37/20 A		
Starting current:	240 A	l'tel 7	╎┟┉᠊᠊᠋᠋᠋᠊᠋᠋ᡩ╎┟┉᠊᠊᠋᠋᠊ᠬᢁ᠁ᢁ
Cos phi - power factor:	0.87	<u> </u>	
Cos phi - p.f. at 3/4 load:	0.84		

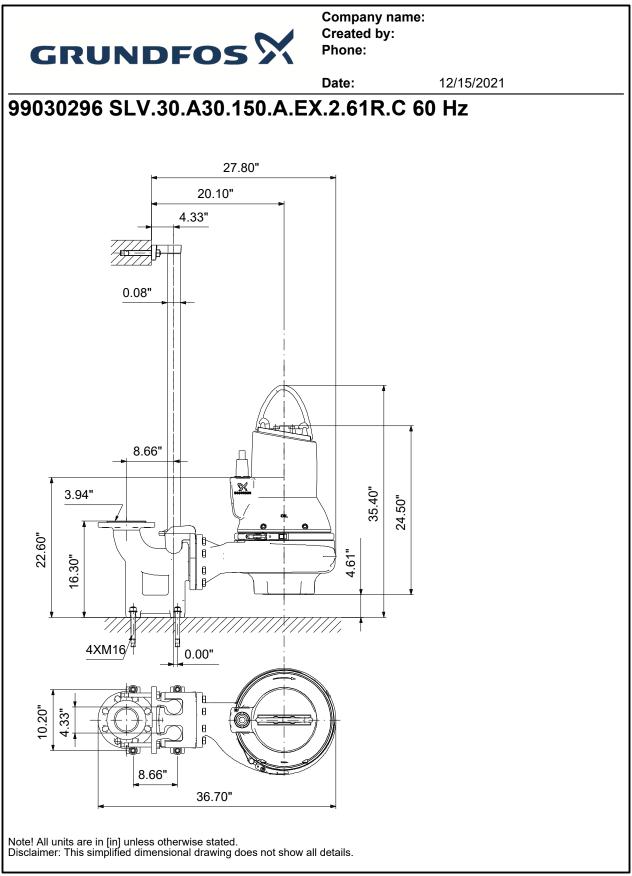
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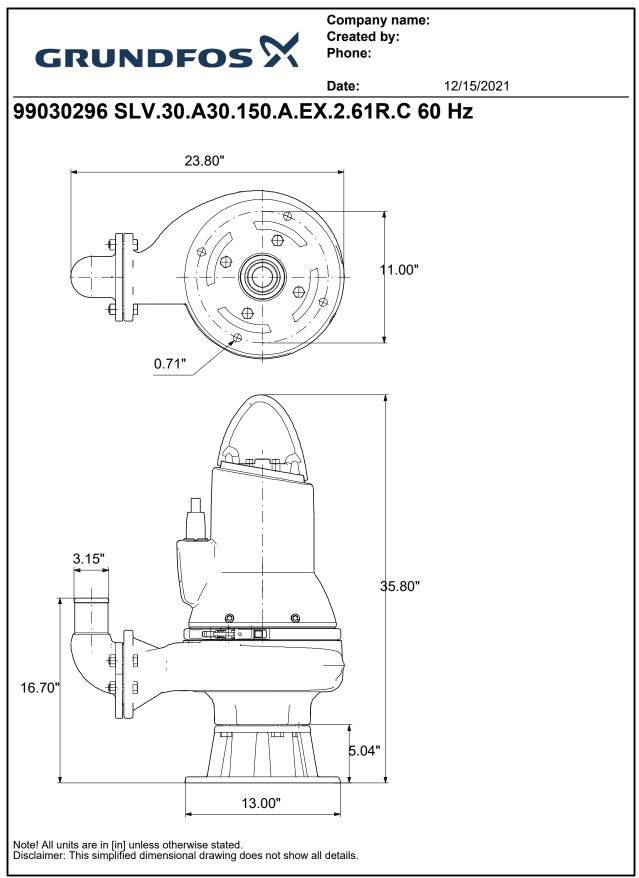
Date: 12/15/2021 Description Value Cos phi - p.f. at 1/2 load: 0.77 Rated speed: 3530 rpm Motor efficiency at full load: 90.7 % Motor efficiency at 3/4 load: 91.2 % Motor efficiency at 1/2 load: 91.2 % Number of poles: 2 Start. method: star/delta Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): Н Explosion proof: yes Built-in motor protection: Pt1000 Length of cable: 49 ft SEOOW 600V Cable type: Controls: Control box: not included Moisture sensor: with moisture sensors Water-in-oil sensor: with water-in-oil sensor Others: 396 lb Net weight: Country of origin: HU Custom tariff no .: 8413.70.2004



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